

10156000 SNAKE CREEK NEAR CHARLESTON, UT

LOCATION.--Lat 40°29'07", long 111°27'59", in NE¹/₄NW¹/₄SW¹/₄ sec. 11, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 700 ft upstream from mouth and 1.5 mi northeast of Charleston.

DRAINAGE AREA.--31.8 mi².

PERIOD OF RECORD.--September 1938 to October 1950, May 1993 to current year. Monthly discharge only, September 1938 to September 1945, published in WSP 1413.

GAGE.--Water-stage recorder. Elevation of gage is 5,435 ft above sea level, from topographic map. Prior to 1993 at different datum.

REMARKS.-- Records fair. Estimated discharge fair. Some diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft³/_s June 14, 1995, gage height, 2.46 ft, maximum gage height, 3.63 ft Mar. 23, 1996; minimum, 19 ft³/_s May 1, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft³/_s June 9, gage height, 3.02 ft; minimum daily discharge, 40 ft³/_s July 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	55	45	47	45	42	56	58	72	49	44	51
2	43	55	45	50	46	42	56	56	76	50	42	53
3	45	53	45	56	46	42	56	56	73	43	42	55
4	46	52	45	50	45	42	56	56	74	42	46	56
5	44	56	45	48	45	42	55	54	76	43	46	56
6	43	52	44	47	45	43	53	55	77	47	47	56
7	44	52	42	47	45	43	54	49	73	48	52	56
8	44	53	42	47	45	43	54	49	75	48	45	55
9	44	52	43	46	45	43	55	50	79	51	46	56
10	44	50	53	46	45	44	55	58	73	51	47	58
11	44	50	56	47	44	44	54	56	70	49	45	58
12	44	50	51	47	43	45	54	53	70	46	45	57
13	45	49	52	46	42	47	54	55	73	49	45	54
14	47	49	49	46	42	47	54	62	71	54	46	53
15	49	49	46	46	43	48	55	65	71	47	48	53
16	53	51	46	46	42	50	55	68	70	42	46	58
17	55	52	46	46	43	57	59	75	67	41	46	53
18	56	60	46	46	43	57	59	77	68	43	46	54
19	59	57	45	46	43	57	53	79	73	44	46	59
20	59	57	45	46	43	59	53	80	73	42	47	63
21	58	57	43	46	43	59	54	78	74	43	50	62
22	59	61	44	47	42	58	55	77	72	46	57	61
23	58	50	44	46	42	58	57	74	71	46	57	60
24	59	47	44	44	42	57	58	76	69	50	61	60
25	60	46	45	45	42	56	55	74	63	50	50	60
26	63	46	46	48	41	57	55	69	59	47	47	61
27	60	46	47	48	42	57	55	67	60	43	47	65
28	57	45	46	47	42	56	56	66	62	44	51	64
29	57	45	46	46	---	56	59	65	62	46	50	65
30	56	45	46	45	---	56	58	62	60	40	54	64
31	54	---	47	45	---	57	---	63	---	41	51	---
TOTAL	1596	1542	1429	1453	1216	1564	1662	1982	2106	1425	1492	1736
MEAN	51.5	51.4	46.1	46.9	43.4	50.5	55.4	63.9	70.2	46.0	48.1	57.9
MAX	63	61	56	56	46	59	59	80	79	54	61	65
MIN	43	45	42	44	41	42	53	49	59	40	42	51
AC-FT	3170	3060	2830	2880	2410	3100	3300	3930	4180	2830	2960	3440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-50, 1994-97, BY WATER YEAR (WY)

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1994	1995	1996	1997
MEAN	45.8	47.3	43.6	41.7	41.5	45.6	46.3	55.1	59.5	44.6	39.6	40.2	45.8	46.0	48.1	57.9
MAX	57.5	62.9	53.9	49.9	55.0	52.2	57.8	87.5	86.8	59.4	50.1	57.9	63	61	65	65
(WY)	1946	1946	1946	1946	1945	1945	1945	1943	1995	1995	1945	1997	1994	1994	1994	1994
MIN	35.5	33.8	36.2	35.4	33.6	36.2	36.3	38.6	35.5	26.3	28.5	29.6	40	42	42	51
(WY)	1940	1940	1940	1941	1941	1940	1941	1994	1994	1994	1940	1939	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1939-50, 1994-97
ANNUAL TOTAL	17488	19203	
ANNUAL MEAN	47.8	52.6	45.8
HIGHEST ANNUAL MEAN			52.6
LOWEST ANNUAL MEAN			36.2
HIGHEST DAILY MEAN	82	80	113
LOWEST DAILY MEAN	37	40	24
ANNUAL SEVEN-DAY MINIMUM	40	42	25
ANNUAL RUNOFF (AC-FT)	34690	38090	33200
10 PERCENT EXCEEDS	56	66	57
50 PERCENT EXCEEDS	46	50	44
90 PERCENT EXCEEDS	42	43	35

e Estimated